

2 April 1965

MEMORANDUM FOR: Division Chiefs

SUBJECT : Seminars Sponsored by Technical Staff in  
March--May 1965

Here is a tentative list of the seminars to be given in the March--May period. Specific times will be announced, however, 1. and 2. were completed last week and 3.--7. are planned for the period 7--19 April.

1. COBOL Techniques (2 hours)

- a. Variable fields
- b. Sort algorithms
- c. Data streams
- d. Variable fields by indexing

*done*

2. COBOL Techniques (1 1/2 hours)

- a. Search algorithms
- b. Double level variability

*done*

3. OCS Hardware Plan 1965--1967 (1 1/2 hours)

*4/7/65 2:30-4:00  
Auditorium*

4. Description of Hardware Features of Future Hardware (2 hours)

5. Direct Access Storage Devices (2 hours)

- a. General concepts
- b. Key generation
- c. Comparisons

-2-

6. Direct Access Storage Devices on IBM 360 (3 hours)
  - a. Common format
  - b. 2302 disk
  - c. 2311 disk pac
  - d. data cell
  - e. drum
7. DASD (3 1/2 hours)
  - a. Types of data sets supported on S-360
  - b. Key generation with 8-bit bytes
  - c. Implications of the File Scanner
8. Microelectronics (1 1/2 hours)
  - a. Evolution of circuitry
    - (1) vacuum tube
    - (2) transistors
    - (3) silicon chips and thin films
  - b. Power
  - c. Environmental conditions
  - d. Reliability
  - e. Speed
  - f. Manufacture
  - g. Hardwired software
9. Software Comparisons (1 1/2 hours)
  - a. FORTRAN (7090 vs 360)
  - b. COBOL (1410/7010 vs 360)
10. DASD Data Set Design (3 hours)
  - a. The design of data sets within parameters of S-360
  - b. Optimized Record design
  - c. Optimization of the trade offs of the above a. and b.

-3-

11. DASD Open Session (2 hours)

Specific design problems of job leaders and programmers will be discussed and solutions suggested.

12. On-line Devices (2 hours)

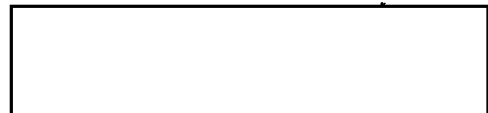
13. History of Natural Language Translation by Machine (1 1/2 hours)

14. Techniques of Computational Linguistics (1 1/2 hours)

15. List Processing (1 1/2 hours)

- a. LISP
- b. IPL-5
- c. Relation to query languages

25X1A



Chief  
Technical Staff

LFR:mm

DEVELOPMENT DIVISION ROUTING SHEET

Name	Initial	Date
------	---------	------

<div>Return to</div>	<u>RL</u>	_____
	<u>RL</u>	_____
	<u>JM</u>	_____
	_____	_____
	<u>JMS</u>	_____
	<u>ES</u>	<u>7 Apr</u>
	<u>LD</u>	_____
	<u>Ry</u>	_____

~~DiCostanzo~~

File

Comments:

Events - past & future.

We will be informed of  
schedules for those in the